

- Commits changed
- Journal
- Thoughts & ideas
- Agendas (telephone, meetings)
- Conversations

(6:15 - 5:15)

FEBRUARY 1994

DAILY RECORD OF EVENTS

3

THURSDAY

34th Day 331 Left
Week 5

Pre

(8:30 - 12:30) Mtg. - State DEC/DWQ

Waste Rock Mgmt. Plan (Barney's Cyp.)
Larry Hodge, Don Cotter, CC Aitel, D. Wham, M. Novak (DWQ)
John Lammon, Z. Zavodni, John Firth, Dave Jordan

9:00 AM

- es. 50% Melco Sulfide ore 650 mill tons in main Melco dump
- Low pH water allows c. 25% increase in CPC.
- Sulfates c. 3 ppm (except on TCE in CPC)
- other wells in general area @ 100 - 130
- Barney's Pit pumping @ 45 ppm
- @ 10 yrs - 300 yrs estimate KIC thru dumps
to groundwater
- some field tests performed on dumps to get
estimates on infiltration, permeability, flux, etc.
Melco (deep deposits, to 150 ft deep)
90 mill tons material mixed (+ waste) +
+ 10 mill tons ore, c. 85 mill tons material
Soil from sulfide or sulfate in Melco waste
containing around 20% total sulfur

SBCS (more shallow deposit, weather oxidized)

@ 1.5 mill tons.

- c. 1% sulfur as sulfate (already oxidized)
* Richard Dawson of I (also working on Canadian project)
HBT AGRA (consultant) on dump analyses recent
report generated. 10⁻⁴ to 10⁻⁶ cm/sec (depends
10⁻³ or greater on uncompacted, loose dump material)

USFS is doing some work in Nevada presently on
dump evaporation. Canadian work also ongoing.

John - HEP model used w/sec stds. I
believe they can design cover for dump allowing only .5%/yr. flux
relatively easily.

* Publication 31, 1971 Chem. Mng. Recharge data (Dept Natl Res.)
used as basis

BAT measure is proposed to be pursued rather
than modeling potential g/w impacts
from sulfate contamination.

est. @ 30⁴ bottom Melco pit mine schedule won't allow good blending
of acid with Melco dump, segregate sulfide & backfill NBES

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MONTH Feb YEAR 4
DAILY RECORD OF EVENT

SAMPLE FORM

3

DATE

(c. 2 million tons sulfide material to backfill
the NRC's put/ask engineered cap/sandbar to a
mine plant to continue to blend the SM Melco approach)

(c. 40 mil tons in South Melco Dump)
could engineer caps segregate sulfides
at top of dump & isolate impacts

(c. 3 mil tons, c. 200 ft thick could
prevent large potential problem, but could
do something with it easier than if blend
thru entire south dump (more difficult to find
if problem occurs))

est. (c. 100,000 t. of sulfide waste blended in Melco
South dump presently.

- is some sulfide material in Barney's Cyp.
dumps. Will be segregated, compacted,
topsoiled & vegetated.

- sulfides in Barney's Cyp. will be
submerged ultimately as pit fills & H2O
presently @ 200 ft below water table.

David H. Winter (Colorado State) helping out develop
analytical model (?) for dumps (water vapor
expectation)

* overview document w/illustrative #s &
figures KUC has committed to prepare. Requesting
some feedback from agencies on the direction
they (KUC) are pursuing.

+ Worked on new job announcement, notified
draft to LPB.